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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


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 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  AUG 06  CAS REGISTRY enhanced with new experimental property tags
 NEWS  3  AUG 06  FSTA enhanced with new thesaurus edition
 NEWS  4  AUG 13  CA/CAplus enhanced with additional kind codes for granted
                  patents
 NEWS  5  AUG 20  CA/CAplus enhanced with CAS indexing in pre-1907 records
 NEWS  6  AUG 27  Full-text patent databases enhanced with predefined
                  patent family display formats from INPADOCDB
 NEWS  7  AUG 27  USPATOLD now available on STN
 NEWS  8  AUG 28  CAS REGISTRY enhanced with additional experimental
                  spectral property data
 NEWS  9  SEP 07  STN AnaVist, Version 2.0, now available with Derwent
                  World Patents Index
 NEWS 10  SEP 13  FORIS renamed to SOFIS
 NEWS 11  SEP 13  INPADOCDB enhanced with monthly SDI frequency
 NEWS 12  SEP 17  CA/CAplus enhanced with printed CA page images from
                  1967-1998
 NEWS 13  SEP 17  CAplus coverage extended to include traditional medicine
                  patents
 NEWS 14  SEP 24  EMBASE, EMBAL, and LEMBASE reloaded with enhancements
 NEWS 15  OCT 02  CA/CAplus enhanced with pre-1907 records from Chemisches
                  Zentralblatt
 NEWS 16  OCT 19  BEILSTEIN updated with new compounds
 NEWS 17  NOV 15  Derwent Indian patent publication number format enhanced
 NEWS 18  NOV 19  WPIX enhanced with XML display format
 NEWS 19  NOV 30  ICSD reloaded with enhancements
 NEWS 20  DEC 04  LINPADOCDB now available on STN
 NEWS 21  DEC 14  BEILSTEIN pricing structure to change
 NEWS 22  DEC 17  USPATOLD added to additional database clusters
 NEWS 23  DEC 17  IMSDRUGCONF removed from database clusters and STN
 NEWS 24  DEC 17  DGENE now includes more than 10 million sequences
 NEWS 25  DEC 17  TOXCENTER enhanced with 2008 MeSH vocabulary in
                  MEDLINE segment
 NEWS 26  DEC 17  MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
 NEWS 27  DEC 17  CA/CAplus enhanced with new custom IPC display formats
 NEWS 28  DEC 17  STN Viewer enhanced with full-text patent content
                  from USPATOLD

 NEWS EXPRESS  19 SEPTEMBER 2007:  CURRENT WINDOWS VERSION IS V8.2,
               CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
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 NEWS IPC8     For general information regarding STN implementation of IPC 8
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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 07:16:44 ON 28 DEC 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 07:17:02 ON 28 DEC 2007
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 DEC 2007 HIGHEST RN 959655-61-9
DICTIONARY FILE UPDATES: 27 DEC 2007 HIGHEST RN 959655-61-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

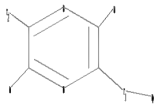
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

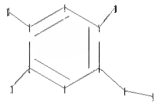
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10649299.str





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chain nodes :
7  9  10  11  13
ring nodes :
1  2  3  4  5  6
chain bonds :
2-11  3-13  5-10  6-7  7-9
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
2-11  3-13  5-10  6-7  7-9
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6


G1:O,S,N

G2:C,O,S

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  9:Atom  10:CLASS  11:CLASS
 13:CLASS
Generic attributes :
9:
Saturation              : Unsaturated



L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR
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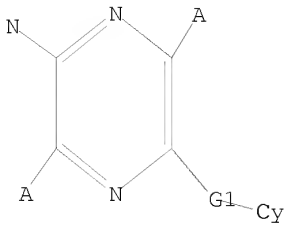

G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 07:17:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1270 TO ITERATE

100.0% PROCESSED 1270 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 23263 TO 27537
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 07:17:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 25778 TO ITERATE

100.0% PROCESSED 25778 ITERATIONS 50 ANSWERS
SEARCH TIME: 00.00.01

L3 50 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 172.10 172.31

FILE 'CAPLUS' ENTERED AT 07:17:35 ON 28 DEC 2007
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FILE COVERS 1907 - 28 Dec 2007 VOL 148 ISS 1

FILE LAST UPDATED: 27 Dec 2007 (20071227/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l3
L4 7 L3

=> d 1-7 ibib abs hitstr

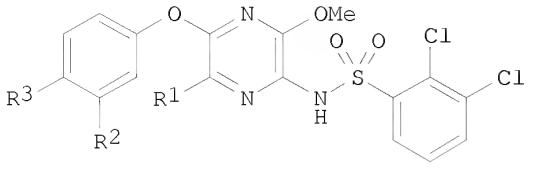
L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:351030 CAPLUS
DOCUMENT NUMBER: 146:380011
TITLE: Preparation of N-pyrazinyl phenylsulfonamides as chemokine receptor modulators for treatment of asthma
INVENTOR(S): Kindon, Nicholas; Mete, Antonio; Teobald, Barry
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.
SOURCE: PCT Int. Appl., 79pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007035154	A1	20070329	WO 2006-SE1060	20060918

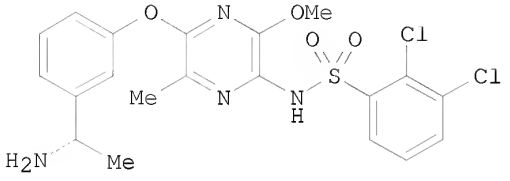
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: SE 2005-2068 A 20050919
OTHER SOURCE(S): MARPAT 146:380011
GI



I



II

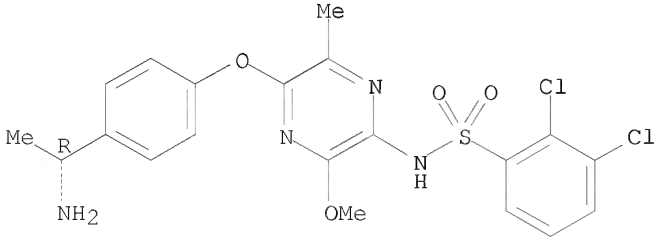
AB The title N-pyrazinyl phenylsulfonamides I [wherein R1 = H, Me, F, or Cl; one of R2 and R3 = H or F; the other of R2 and R3 = (un)substituted CH2NH2 or CH2CH2NH2] or pharmaceutically acceptable salts thereof were prepared as chemokine receptor modulators for treatment of asthma (no data). For example, II was prepared in a multi-step synthesis. II showed 96.4% binding activity towards human plasma protein.

IT 931092-38-5P 931092-41-0P 931092-48-7P
931092-61-4P 931092-62-5P 931092-67-0P
931092-68-1P 931092-72-7P 931092-73-8P
931092-78-3P 931092-79-4P 931092-80-7P
931092-81-8P 931092-82-9P 931092-86-3P
931092-87-4P 931092-88-5P 931092-92-1P
931093-00-4P 931093-07-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of N-pyrazinyl phenylsulfonamides as chemokine receptor modulators for treatment of asthma)

RN 931092-38-5 CAPLUS

CN Benzenesulfonamide, N-[5-[4-[(1R)-1-aminoethyl]phenoxy]-3-methoxy-6-methyl-2-pyrazinyl]-2,3-dichloro-, hydrochloride (1:?) (CA INDEX NAME)

Absolute stereochemistry.

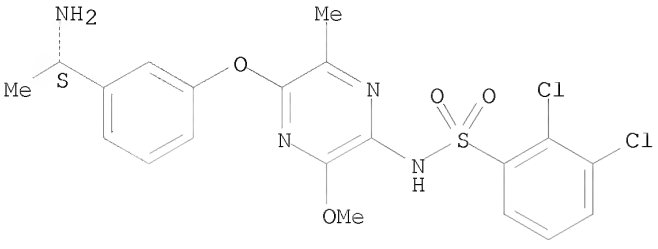


●x HCl

RN 931092-41-0 CAPLUS

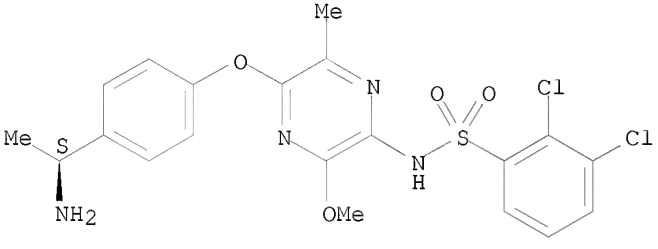
CN Benzenesulfonamide, N-[5-[3-[(1S)-1-aminoethyl]phenoxy]-3-methoxy-6-methyl-2-pyrazinyl]-2,3-dichloro- (CA INDEX NAME)

Absolute stereochemistry.



RN 931092-48-7 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1S)-1-aminoethyl]phenoxy]-3-methoxy-6-methyl-2-pyrazinyl]-2,3-dichloro-, hydrochloride (1:?) (CA INDEX NAME)

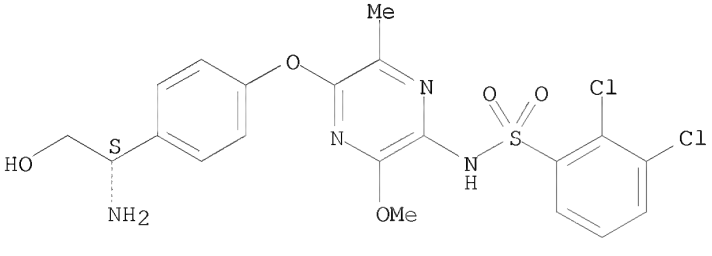
Absolute stereochemistry.



●x HCl

RN 931092-61-4 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1S)-1-amino-2-hydroxyethyl]phenoxy]-3-methoxy-6-methyl-2-pyrazinyl]-2,3-dichloro- (CA INDEX NAME)

Absolute stereochemistry.

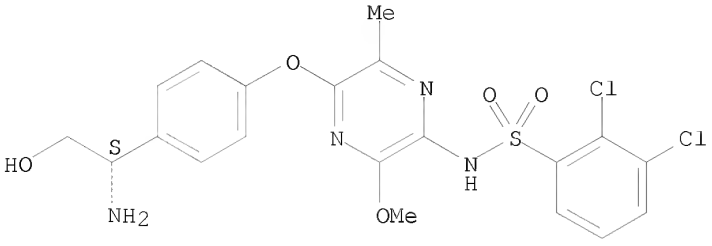


RN 931092-62-5 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1S)-1-amino-2-hydroxyethyl]phenoxy]-3-methoxy-6-methyl-2-pyrazinyl]-2,3-dichloro-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

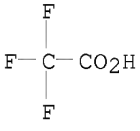
CRN 931092-61-4
CMF C20 H20 Cl2 N4 O5 S

Absolute stereochemistry.



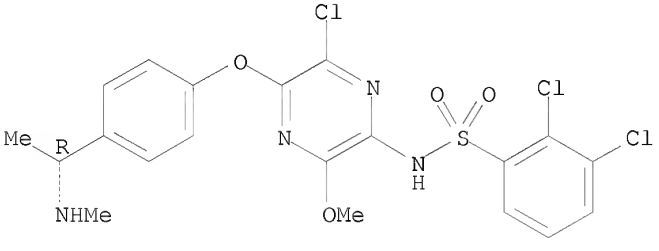
CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 931092-67-0 CAPLUS
CN Benzenesulfonamide, 2,3-dichloro-N-[6-chloro-3-methoxy-5-[4-[(1R)-1-(methylamino)ethyl]phenoxy]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

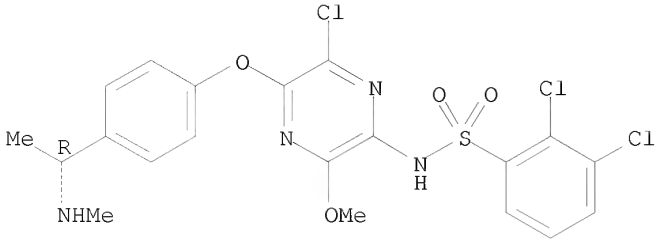


RN 931092-68-1 CAPLUS
CN Benzenesulfonamide, 2,3-dichloro-N-[6-chloro-3-methoxy-5-[4-[(1R)-1-(methylamino)ethyl]phenoxy]-2-pyrazinyl]-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

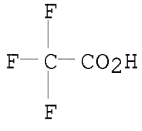
CRN 931092-67-0
CMF C20 H19 Cl3 N4 O4 S

Absolute stereochemistry.



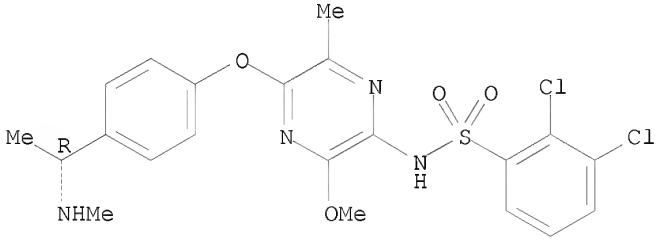
CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 931092-72-7 CAPLUS
CN Benzenesulfonamide, 2,3-dichloro-N-[3-methoxy-6-methyl-5-[4-[(1R)-1-(methylamino)ethyl]phenoxy]-2-pyrazinyl]- (CA INDEX NAME)

Absolute stereochemistry.

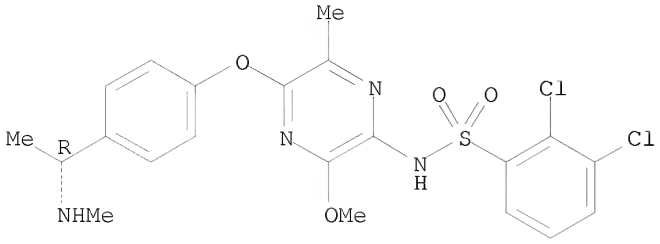


RN 931092-73-8 CAPLUS
CN Benzenesulfonamide, 2,3-dichloro-N-[3-methoxy-6-methyl-5-[4-[(1R)-1-(methylamino)ethyl]phenoxy]-2-pyrazinyl]-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

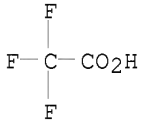
CRN 931092-72-7
CMF C21 H22 Cl2 N4 O4 S

Absolute stereochemistry.



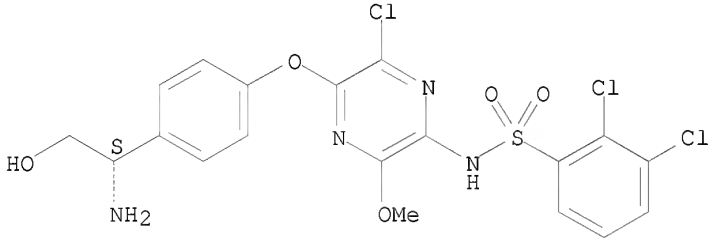
CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 931092-78-3 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1S)-1-amino-2-hydroxyethyl]phenoxy]-6-chloro-3-methoxy-2-pyrazinyl]-2,3-dichloro- (CA INDEX NAME)

Absolute stereochemistry.

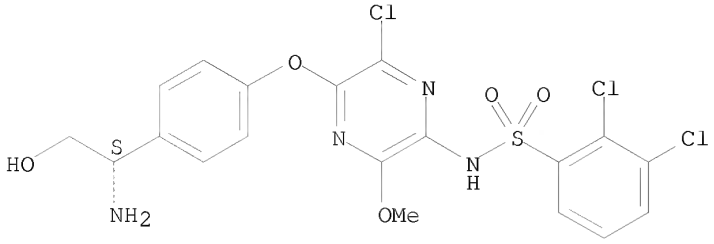


RN 931092-79-4 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1S)-1-amino-2-hydroxyethyl]phenoxy]-6-chloro-3-methoxy-2-pyrazinyl]-2,3-dichloro-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

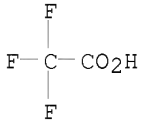
CRN 931092-78-3
CMF C19 H17 Cl3 N4 O5 S

Absolute stereochemistry.



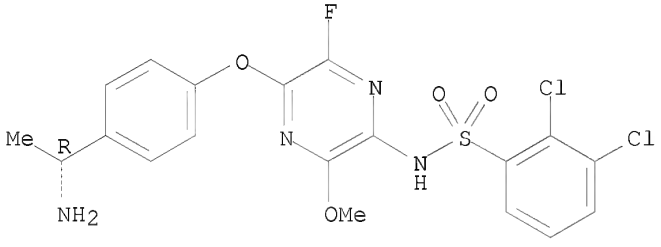
CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 931092-80-7 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1R)-1-aminoethyl]phenoxy]-6-fluoro-3-methoxy-2-pyrazinyl]-2,3-dichloro-, hydrochloride (1:?) (CA INDEX NAME)

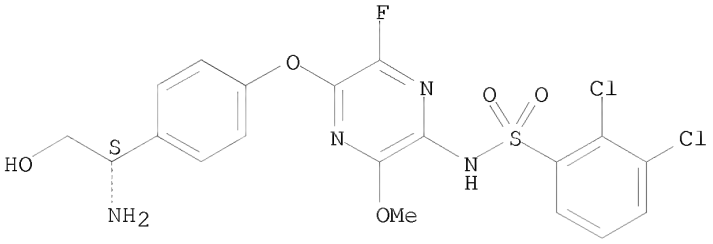
Absolute stereochemistry.



●x HCl

RN 931092-81-8 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1S)-1-amino-2-hydroxyethyl]phenoxy]-6-fluoro-3-methoxy-2-pyrazinyl]-2,3-dichloro- (CA INDEX NAME)

Absolute stereochemistry.

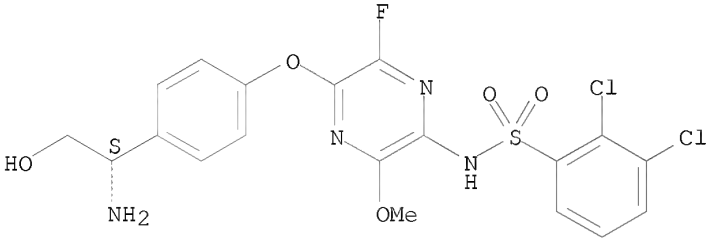


RN 931092-82-9 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1S)-1-amino-2-hydroxyethyl]phenoxy]-6-fluoro-3-methoxy-2-pyrazinyl]-2,3-dichloro-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

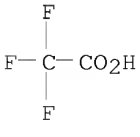
CRN 931092-81-8
CMF C19 H17 Cl2 F N4 O5 S

Absolute stereochemistry.



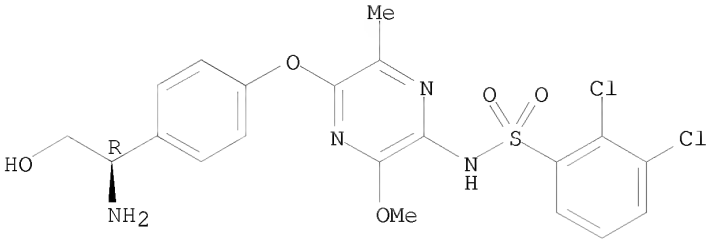
CM 2

CRN 76-05-1
CMF C2 H F3 O2



RN 931092-86-3 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1R)-1-amino-2-hydroxyethyl]phenoxy]-3-methoxy-6-methyl-2-pyrazinyl]-2,3-dichloro- (CA INDEX NAME)

Absolute stereochemistry.

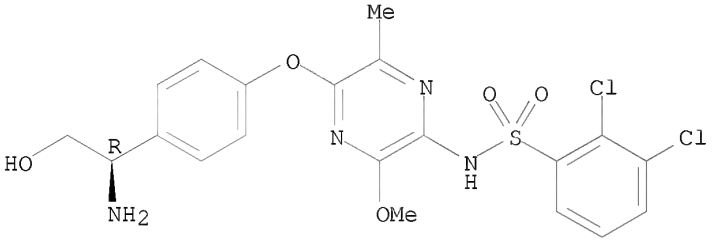


RN 931092-87-4 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1R)-1-amino-2-hydroxyethyl]phenoxy]-3-methoxy-6-methyl-2-pyrazinyl]-2,3-dichloro-, 2,2,2-trifluoroacetate (1:?) (CA INDEX NAME)

CM 1

CRN 931092-86-3
CMF C20 H20 Cl2 N4 O5 S

Absolute stereochemistry.



CM 2

CRN 76-05-1
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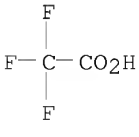
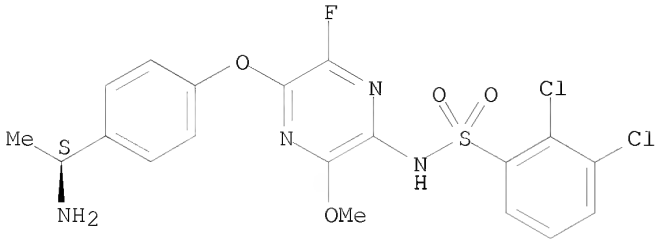


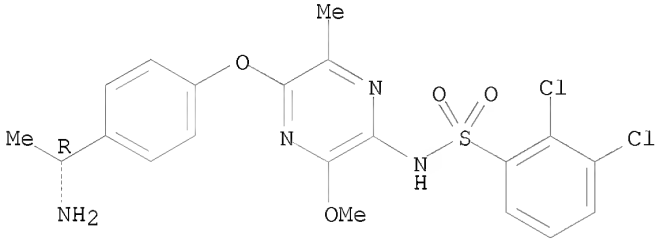
RN 931092-88-5 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1S)-1-aminoethyl]phenoxy]-6-fluoro-3-methoxy-2-pyrazinyl]-2,3-dichloro- (CA INDEX NAME)

Absolute stereochemistry.



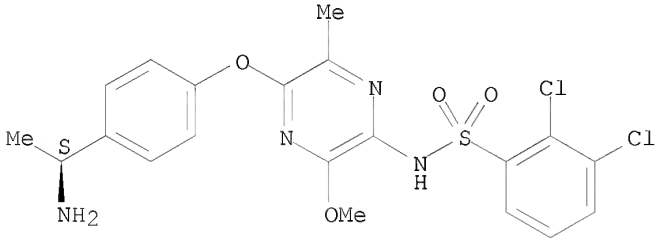
RN 931092-92-1 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1R)-1-aminoethyl]phenoxy]-3-methoxy-6-methyl-2-pyrazinyl]-2,3-dichloro- (CA INDEX NAME)

Absolute stereochemistry.



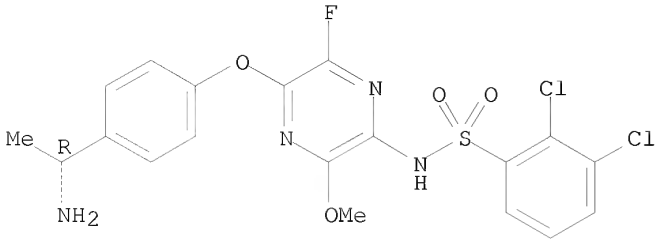
RN 931093-00-4 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1S)-1-aminoethyl]phenoxy]-3-methoxy-6-methyl-2-pyrazinyl]-2,3-dichloro- (CA INDEX NAME)

Absolute stereochemistry.



RN 931093-07-1 CAPLUS
CN Benzenesulfonamide, N-[5-[4-[(1R)-1-aminoethyl]phenoxy]-6-fluoro-3-methoxy-2-pyrazinyl]-2,3-dichloro- (CA INDEX NAME)

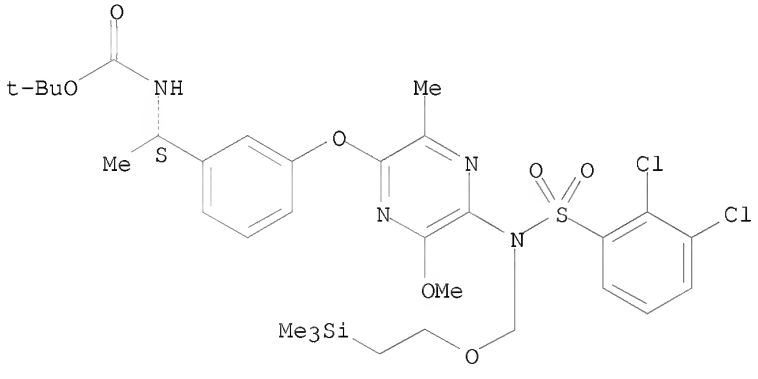
Absolute stereochemistry.



IT 931093-14-0P 931093-24-2P 931093-25-3P
931093-28-6P 931093-29-7P 931093-36-6P
931093-41-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of N-pyrazinyl phenylsulfonamides as chemokine receptor modulators for treatment of asthma)

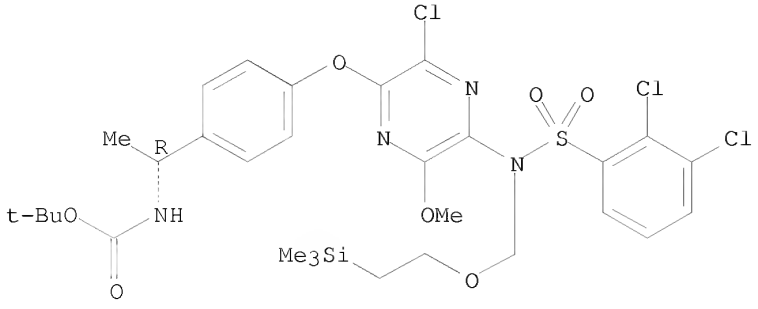
RN 931093-14-0 CAPLUS
CN Carbamic acid, N-[(1S)-1-[3-[[5-[[(2,3-dichlorophenyl)sulfonyl][[2-(trimethylsilyl)ethoxy]methyl]amino]-6-methoxy-3-methyl-2-pyrazinyl]oxy]phenyl]ethyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

Absolute stereochemistry.



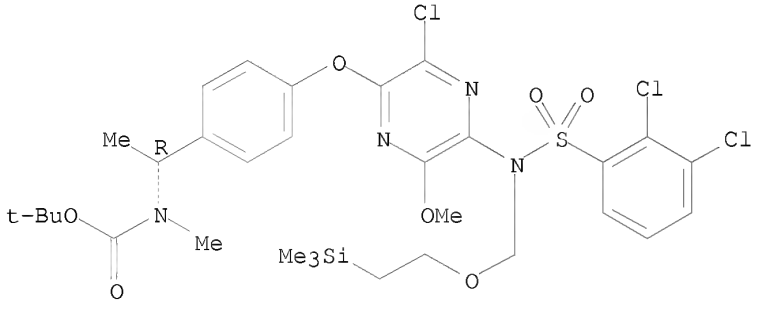
RN 931093-24-2 CAPLUS
CN Carbamic acid, N-[(1R)-1-[4-[[3-chloro-5-[[(2,3-dichlorophenyl)sulfonyl][[2-(trimethylsilyl)ethoxy]methyl]amino]-6-methoxy-2-pyrazinyl]oxy]phenyl]ethyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

Absolute stereochemistry.



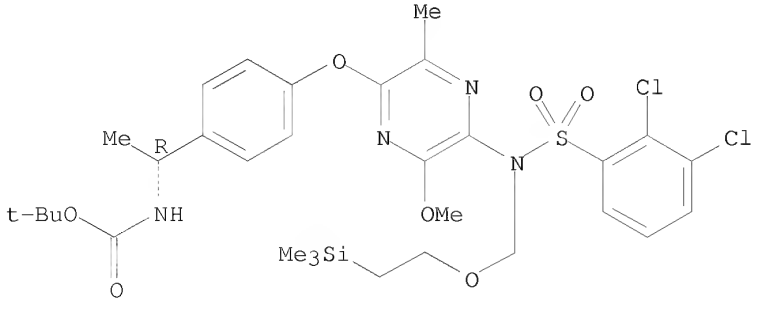
RN 931093-25-3 CAPLUS
CN Carbamic acid, N-[(1R)-1-[4-[[3-chloro-5-[[(2,3-dichlorophenyl)sulfonyl][[2-(trimethylsilyl)ethoxy]methyl]amino]-6-methoxy-2-pyrazinyl]oxy]phenyl]ethyl]-N-methyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 931093-28-6 CAPLUS
CN Carbamic acid, N-[(1R)-1-[4-[[5-[[(2,3-dichlorophenyl)sulfonyl][[2-(trimethylsilyl)ethoxy]methyl]amino]-6-methoxy-3-methyl-2-pyrazinyl]oxy]phenyl]ethyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

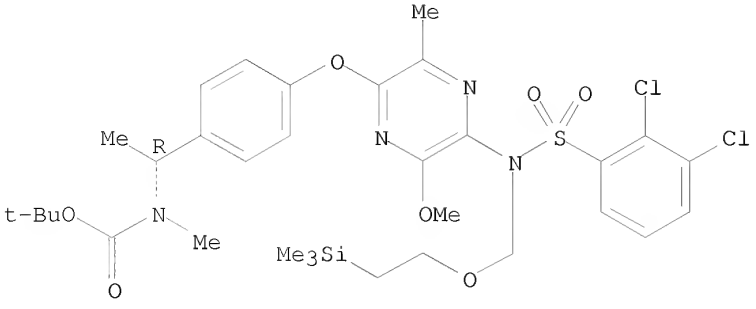
Absolute stereochemistry.



RN 931093-29-7 CAPLUS
CN Carbamic acid, N-[(1R)-1-[4-[[5-[[(2,3-dichlorophenyl)sulfonyl][[2-(trimethylsilyl)ethoxy]methyl]amino]-6-methoxy-3-methyl-2-pyrazinyl]oxy]phenyl]ethyl]-N-methyl-, 1,1-dimethylethyl ester (CA INDEX

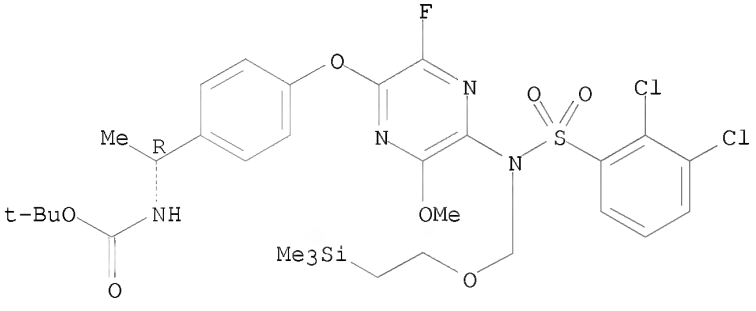
NAME)

Absolute stereochemistry.



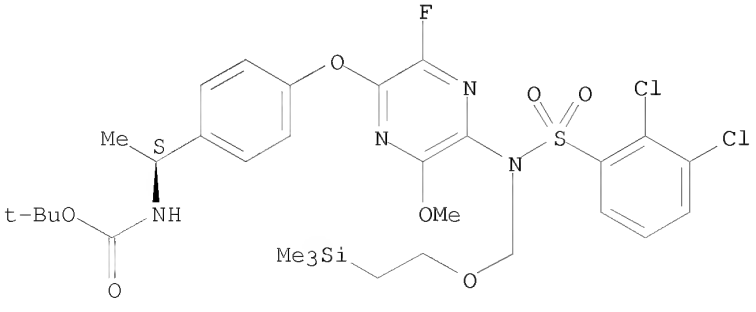
RN 931093-36-6 CAPLUS
CN Carbamic acid, N-[(1R)-1-[4-[[5-[[(2,3-dichlorophenyl)sulfonyl][[2-(trimethylsilyl)ethoxy]methyl]amino]-3-fluoro-6-methoxy-2-pyrazinyl]oxy]phenyl]ethyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

Absolute stereochemistry.



RN 931093-41-3 CAPLUS
CN Carbamic acid, N-[(1S)-1-[4-[[5-[[(2,3-dichlorophenyl)sulfonyl][[2-(trimethylsilyl)ethoxy]methyl]amino]-3-fluoro-6-methoxy-2-pyrazinyl]oxy]phenyl]ethyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

Absolute stereochemistry.

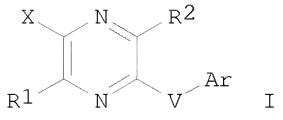


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:252506 CAPLUS
DOCUMENT NUMBER: 140:287400
TITLE: Preparation of substituted 1,4-pyrazine derivatives as CRF inhibitors
INVENTOR(S): Corbett, Jeffrey W.; Fu, Jian-min; Ennis, Michael D.; Frank, Kristine E.; Hoffman, Robert L.; Verhoest, Patrick R.
PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004024719	A1	20040325	WO 2003-US24805	20030827
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2494975	A1	20040325	CA 2003-2494975	20030827
AU 2003269949	A1	20040430	AU 2003-269949	20030827
US 2004116444	A1	20040617	US 2003-649299	20030827
EP 1539736	A1	20050615	EP 2003-751841	20030827
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003014139	A	20050712	BR 2003-14139	20030827
JP 2006506350	T	20060223	JP 2004-536018	20030827
MX 2005PA02418	A	20050527	MX 2005-PA2418	20050302
PRIORITY APPLN. INFO.:			US 2002-410261P P	20020912
			WO 2003-US24805 W	20030827

OTHER SOURCE(S): MARPAT 140:287400
GI



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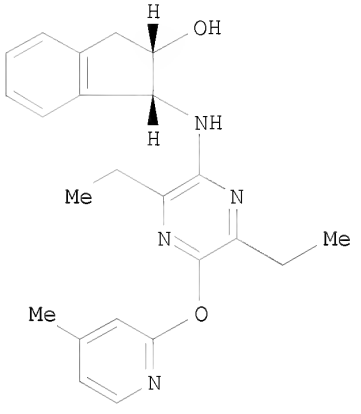


II

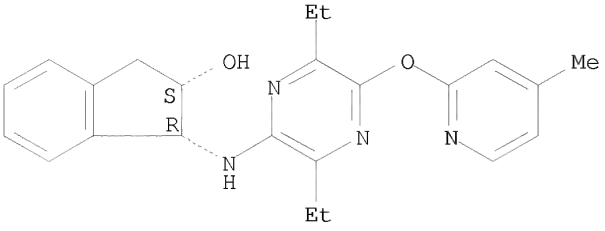
AB Title compds. I [X = (un)substituted amino, alkoxy, alkyl, acyl, etc.; V = O, amino, SO0-2; R1-2 = (un)substituted amino, alkoxy, halo, alkyl, etc.; Ar = (hetero)aryl] are prepared For instance, 3-chloro-2,5-diethylpyrazine is coupled to (1R,2S)-1-amino-2-indanol (PhMe, NaOBu-t, Pd2dba3, 100°, 2 h). The resulting adduct is iodinated (DMSO, I2) and coupled to 2-hydroxy-4-methylpyridine (DMF, CuI, Cs2CO3, 80°) to give II. I are inhibitors of corticotropin releasing factor and are useful in treating anxiety disorders, depression and stress related disorders.

IT 675198-65-9P, (1R,2S)-1-[[3,6-Diethyl-5-[(4-methylpyridin-2-yl)oxy]pyrazin-2-yl]amino]-2,3-dihydro-1H-inden-2-ol 675198-72-8P, (1R,2S)-1-[[3,6-Diethyl-5-[(4-ethylpyridin-2-yl)oxy]pyrazin-2-yl]amino]indan-2-ol 675198-76-2P, (1R,2S)-1-[[3,6-Diethyl-5-[(5-methylpyridin-2-yl)oxy]pyrazin-2-yl]amino]indan-2-ol
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of substituted 1,4-pyrazine derivs. as CRF inhibitors)

RN 675198-65-9 CAPLUS

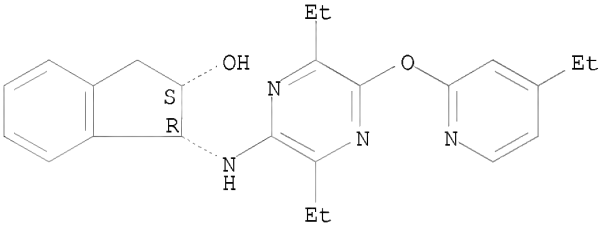
CN 1H-Inden-2-ol, 1-[[3,6-diethyl-5-[(4-methyl-2-pyridinyl)oxy]pyrazinyl]amino]-2,3-dihydro-, (1R,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



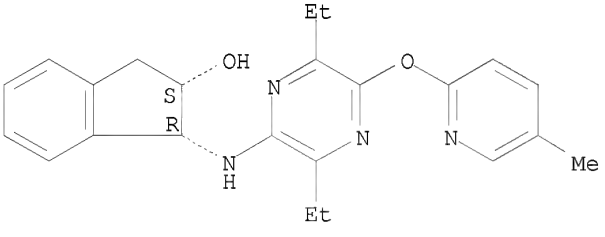
RN 675198-72-8 CAPLUS
CN 1H-Inden-2-ol, 1-[[3,6-diethyl-5-[(4-ethyl-2-pyridinyl)oxy]pyrazinyl]amino]-2,3-dihydro-, (1R,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 675198-76-2 CAPLUS
CN 1H-Inden-2-ol, 1-[[3,6-diethyl-5-[(5-methyl-2-pyridinyl)oxy]pyrazinyl]amino]-2,3-dihydro-, (1R,2S)- (9CI) (CA INDEX NAME)

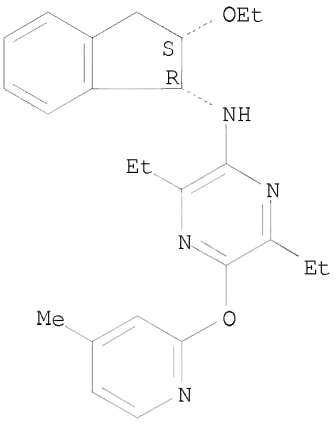
Absolute stereochemistry.



IT 675198-67-1P 675198-68-2P 675198-69-3P
675198-70-6P 675198-71-7P 675198-73-9P
675198-74-0P, (1R,2S)-1-[[3,6-Diethyl-5-[(3-methylpyridin-2-yl)oxy]pyrazin-2-yl]amino]indan-2-ol 675198-75-1P
675198-77-3P 675198-78-4P 675198-80-8P
675198-81-9P, 1-[[3,6-Diethyl-5-[(4-methylphenyl)amino]pyrazin-2-yl]amino]indan-2-ol 675198-82-0P, N-(2-Ethoxy-2,3-dihydro-1H-inden-1-yl)-3,6-diethyl-5-[(4-methylphenyl)thio]pyrazin-2-amine
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted 1,4-pyrazine derivs. as CRF inhibitors)

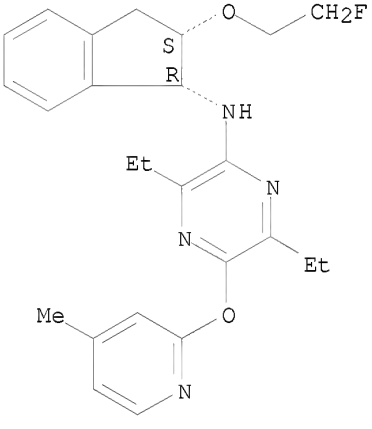
RN 675198-67-1 CAPLUS
CN Pyrazinamine, N-[(1R,2S)-2-ethoxy-2,3-dihydro-1H-inden-1-yl]-3,6-diethyl-5-[(4-methyl-2-pyridinyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



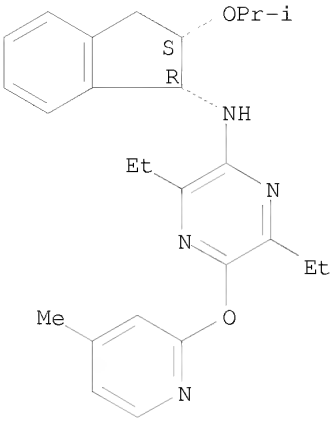
RN 675198-68-2 CAPLUS
CN Pyrazinamine, 3,6-diethyl-N-[(1R,2S)-2-(2-fluoroethoxy)-2,3-dihydro-1H-inden-1-yl]-5-[(4-methyl-2-pyridinyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



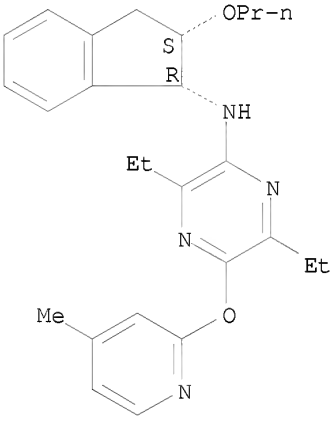
RN 675198-69-3 CAPLUS
CN Pyrazinamine, N-[(1R,2S)-2,3-dihydro-2-(1-methylethoxy)-1H-inden-1-yl]-3,6-diethyl-5-[(4-methyl-2-pyridinyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



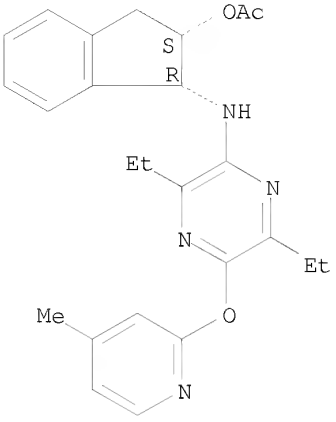
RN 675198-70-6 CAPLUS
CN Pyrazinamine, N-[(1R,2S)-2,3-dihydro-2-propoxy-1H-inden-1-yl]-3,6-diethyl-5-[(4-methyl-2-pyridinyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



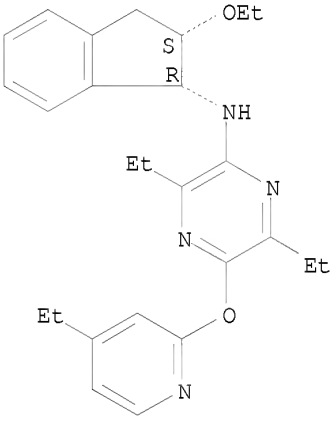
RN 675198-71-7 CAPLUS
CN 1H-Inden-2-ol, 1-[[3,6-diethyl-5-[(4-methyl-2-pyridinyl)oxy]pyrazinyl]amino]-2,3-dihydro-, acetate (ester), (1R,2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



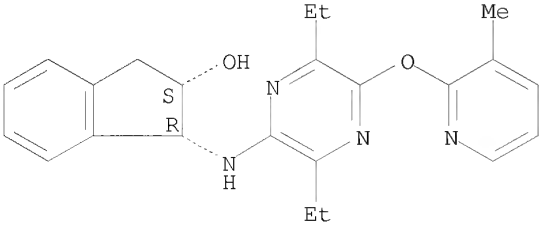
RN 675198-73-9 CAPLUS
CN Pyrazinamine, N-[(1R,2S)-2-ethoxy-2,3-dihydro-1H-inden-1-yl]-3,6-diethyl-5-[(4-ethyl-2-pyridinyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 675198-74-0 CAPLUS
CN 1H-Inden-2-ol, 1-[[3,6-diethyl-5-[(3-methyl-2-pyridinyl)oxy]pyrazinyl]amino]-2,3-dihydro-, (1R,2S)- (9CI) (CA INDEX NAME)

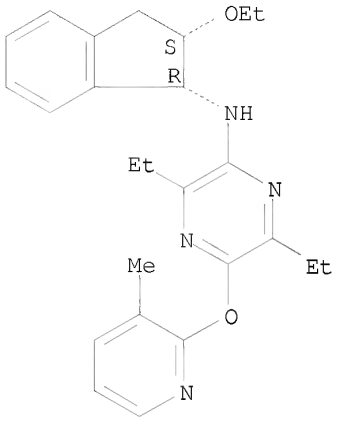
Absolute stereochemistry.



RN 675198-75-1 CAPLUS

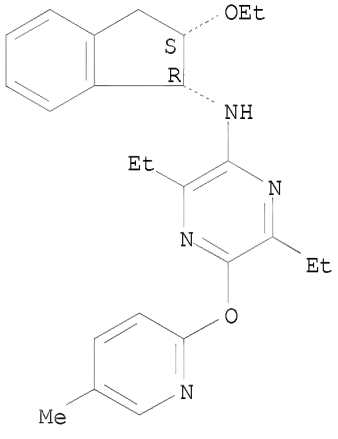
CN Pyrazinamine, N-[(1R,2S)-2-ethoxy-2,3-dihydro-1H-inden-1-yl]-3,6-diethyl-5-[(3-methyl-2-pyridinyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



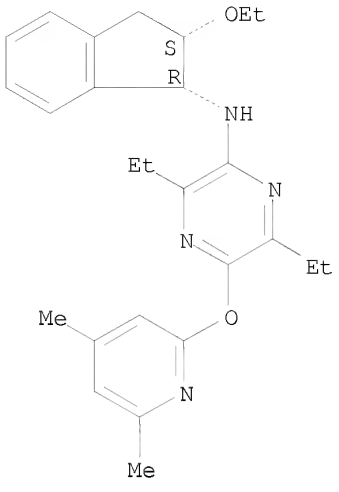
RN 675198-77-3 CAPLUS
CN Pyrazinamine, N-[(1R,2S)-2-ethoxy-2,3-dihydro-1H-inden-1-yl]-3,6-diethyl-5-[(5-methyl-2-pyridinyl)oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



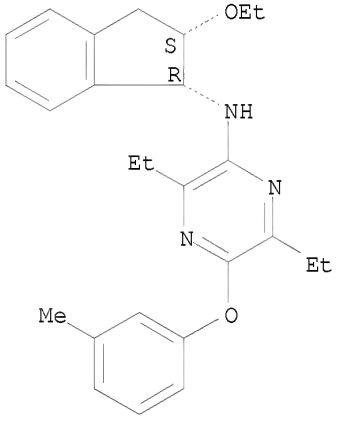
RN 675198-78-4 CAPLUS
CN Pyrazinamine, 5-[(4,6-dimethyl-2-pyridinyl)oxy]-N-[(1R,2S)-2-ethoxy-2,3-dihydro-1H-inden-1-yl]-3,6-diethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

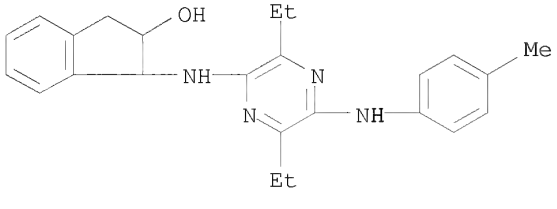


RN 675198-80-8 CAPLUS
CN Pyrazinamine, N-[(1R,2S)-2-ethoxy-2,3-dihydro-1H-inden-1-yl]-3,6-diethyl-5-(3-methylphenoxy)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

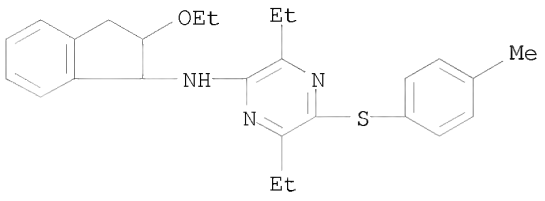


RN 675198-81-9 CAPLUS
CN 1H-Inden-2-ol, 1-[[3,6-diethyl-5-[(4-methylphenyl)amino]pyrazinyl]amino]-2,3-dihydro- (9CI) (CA INDEX NAME)



RN 675198-82-0 CAPLUS

CN Pyrazinamine, N-(2-ethoxy-2,3-dihydro-1H-inden-1-yl)-3,6-diethyl-5-[(4-methylphenyl)thio]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:614437 CAPLUS
DOCUMENT NUMBER: 129:295965
TITLE: Organic electroluminescent device with high luminance and polycyclic phosphorescent compound therefor
INVENTOR(S): Onikubo, Shunichi; Tamano, Michiko; Okutsu, Satoshi; Enokida, Toshio
PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 59 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10251633	A	19980922	JP 1997-62568	19970317
JP 3503403	B2	20040308		
EP 866110	A1	19980923	EP 1998-301986	19980317
EP 866110	B1	20041020		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
EP 934992	A1	19990811	EP 1999-106698	19980317
EP 934992	B1	20040721		
R: DE, FR, GB				
US 6280859	B1	20010828	US 1998-42569	19980317
US 2001033944	A1	20011025		

PRIORITY APPLN. INFO.: JP 1997-62568 A 19970317
EP 1998-301986 A3 19980317
OTHER SOURCE(S): MARPAT 129:295965
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

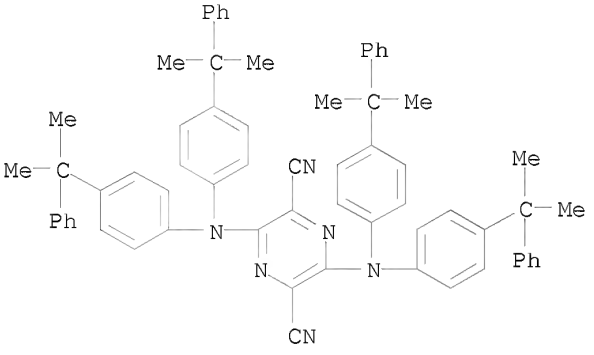
AB The claimed compound is I [A = aromatic (condensed) ring, (condensed) heterocycle excluding Q1 (E = H or linkage), bivalent group comprising ≥2 kinds of 2-10 above ring systems which are connected directly or via O, N, S, C1-20 chain, nonarom. cycle, where the case of A = Q3 is excluded; Ar1-4 = (condensed) aromatic group; X1-4 = O, S, CO, SO2, CxH2xOCyH2y (x, y = 0-20; x + y ≠ 0), C2-20 alkyl(id)ene, bivalent alicyclic group; R1-20 = H, halo, alkyl (oxy), aromatic ring, aromatic

heterocycle, amino]. Also claimed is an organic electroluminescent device containing I with high luminance and good stability in repeated uses.

IT 213968-96-8
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(luminescent material; organic electroluminescent device containing polycyclic phosphorescent compound with high luminance)

RN 213968-96-8 CAPLUS

CN 2,5-Pyrazinedicarbonitrile, 3,6-bis[bis[4-(1-methyl-1-phenylethyl)phenyl]amino]- (CA INDEX NAME)



L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:571474 CAPLUS

DOCUMENT NUMBER: 117:171474

TITLE: Cyanopyrazine derivatives and their manufacture

INVENTOR(S): Kojima, Takakazu

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

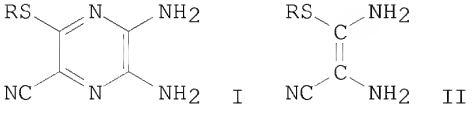
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04112877	A	19920414	JP 1990-232592	19900904

PRIORITY APPLN. INFO.: JP 1990-232592 19900904

OTHER SOURCE(S): CASREACT 117:171474; MARPAT 117:171474

GI

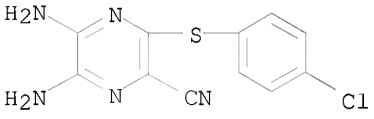


AB Title derivs. I [R = alkyl, aralkyl, cycloalkyl, alkenyl, (substituted) aryl] are manufactured by dimerizing II in the presence of an oxidation catalyst.

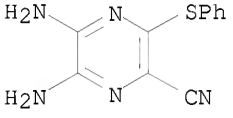
Thus, dimerization of II (R = Ph) in 1,2-dimethoxyethane/H2O in the

presence of E.C. 1.11.1.7 and H2O2 under ice cooling for 5 h gave 54% I (R = Ph).

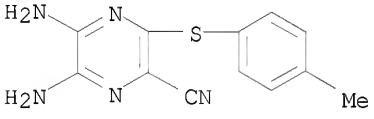
IT 143469-44-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by dimerization of diamino(chlorophenylthio)acrylonitrile)
RN 143469-44-7 CAPLUS
CN Pyrazinecarbonitrile, 5,6-diamino-3-[(4-chlorophenyl)thio]- (9CI) (CA INDEX NAME)



IT 143469-43-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by dimerization of diamino(phenylthio)acrylonitrile)
RN 143469-43-6 CAPLUS
CN Pyrazinecarbonitrile, 5,6-diamino-3-(phenylthio)- (9CI) (CA INDEX NAME)



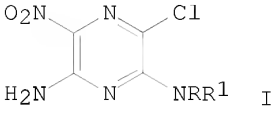
IT 143469-45-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by dimerization of diamino(tolylthio)acrylonitrile)
RN 143469-45-8 CAPLUS
CN Pyrazinecarbonitrile, 5,6-diamino-3-[(4-methylphenyl)thio]- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984:139145 CAPLUS
DOCUMENT NUMBER: 100:139145
ORIGINAL REFERENCE NO.: 100:21243a,21246a
TITLE: 2-Amino derivatives of 3-chloro-5-nitro-6-aminopyrazines useful as adjuncts to radiation therapy
INVENTOR(S): Hartman, George D.
PATENT ASSIGNEE(S): Merck and Co., Inc. , USA
SOURCE: U.S., 4 pp. Cont.-in-part of U.S. Ser. No. 295,446, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4418062	A	19831129	US 1982-399924	19820719
PRIORITY APPLN. INFO.:			US 1980-194100 A2	19801006
			US 1981-295446 A2	19810824

OTHER SOURCE(S): CASREACT 100:139145; MARPAT 100:139145
GI



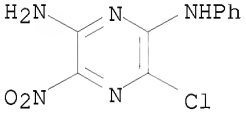
I

AB 2,6-Pyrazinediamines I (R and R1 are alkyl, hydroxyalkyl, aminoalkyl, substituted alkenyl, or NRR1 from a saturated heterocycle), useful as tumor cell sensitizers (no data), were prepared 5,6-Dichloro-3-nitro-2-pyrazinamine was treated with H2NCH2CH2OH and Et3N to give I (R = H, R1 = CH2CH2OH).

IT 88793-48-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 88793-48-0 CAPLUS

CN 2,6-Pyrazinediamine, 3-chloro-5-nitro-N2-phenyl- (CA INDEX NAME)



L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

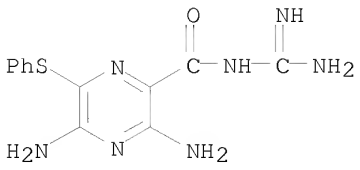
ACCESSION NUMBER:	1981:208189 CAPLUS
DOCUMENT NUMBER:	94:208189
ORIGINAL REFERENCE NO.:	94:34043a,34046a
TITLE:	Theoretical estimation of pKa values of pyrazinylguanidine derivatives
AUTHOR(S):	Bock, Mark G.; Schlegel, H. Bernard; Smith, Graham M.
CORPORATE SOURCE:	Merck, Sharp and Dohme Res. Lab., West Point, PA, 19486, USA
SOURCE:	Journal of Organic Chemistry (1981), 46(9), 1925-7 CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE:	Journal
LANGUAGE:	English

AB The pKa values of substituted anilines and pyridines were predicted equally well by semiempirical and minimal basis set ab initio methods. CNDO/2 calcns. on the diuretic amiloride and closely related derivs. gave a practical correlation between calculated proton affinities and measured solution-phase pKa values.

IT 70296-90-1
RL: PRP (Properties)
(basicity constant and proton affinity of, MO calcn. of)

RN 70296-90-1 CAPLUS

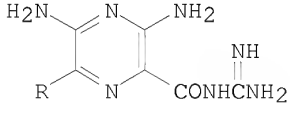
CN Pyrazinecarboxamide, 3,5-diamino-N-(aminoiminomethyl)-6-(phenylthio)- (9CI) (CA INDEX NAME)



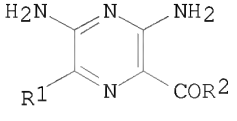
L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:204142 CAPLUS
DOCUMENT NUMBER: 90:204142
ORIGINAL REFERENCE NO.: 90:32485a,32488a
TITLE: Amiloride and its 6-substituted derivatives
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54012389	A	19790130	JP 1978-79240	19780629
US 4196292	A	19800401	US 1977-811011	19770629
FI 7801966	A	19781230	FI 1978-1966	19780620
HU 20578	A2	19810828	HU 1978-ME2174	19780622
HU 178302	B	19820428		
PL 119097	B1	19811130	PL 1978-207947	19780627
DK 7802902	A	19781230	DK 1978-2902	19780628
NO 7802230	A	19790102	NO 1978-2230	19780628
EP 200	A1	19790110	EP 1978-100264	19780628
EP 200	B1	19820324		
R: BE, CH, DE, FR, GB, LU, NL, SE				
ES 471244	A1	19791001	ES 1978-471244	19780628
AT 7804690	A	19801115	AT 1978-4690	19780628
AT 362795	B	19810610		

PRIORITY APPLN. INFO.: US 1977-811011 A 19770629
OTHER SOURCE(S): MARPAT 90:204142
GI



I



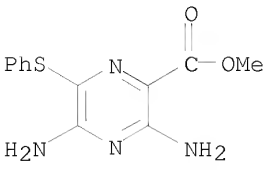
II

AB Amilorides I (R = R1; R1 = Cl, CN, SMe, SCF3,SPh) were prepared by treating I (R = Br, iodo) with CuR1 in OP(NMe2)3 (or DMF) or by amidation of II (R1 as above; R2 = OMe) with guanidine. I (R = R1) are diuretics, antihypertensives and antiinflammatory agents (5-750 mg/day). Thus, treatment of 3.5 g I.HCl (R = iodo) with CuCN in OP(NMe2)3 15 min at 100° gave 1.43 g I (R = CN).

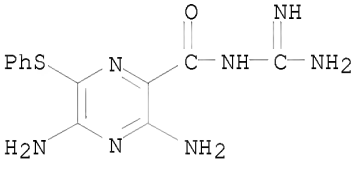
IT 70296-94-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, with guanidine)

RN 70296-94-5 CAPLUS
CN Pyrazinecarboxylic acid, 3,5-diamino-6-(phenylthio)-, methyl ester (9CI)

(CA INDEX NAME)



IT 70296-90-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and diuretic, hypotensive and antiinflammatory activities of)
RN 70296-90-1 CAPLUS
CN Pyrazinecarboxamide, 3,5-diamino-N-(aminoiminomethyl)-6-(phenylthio)-
(9CI) (CA INDEX NAME)



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FULL ESTIMATED COST	40.18	212.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.46	-5.46

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:21:42 ON 28 DEC 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623zct

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 07:54:48 ON 28 DEC 2007
FILE 'CAPLUS' ENTERED AT 07:54:48 ON 28 DEC 2007

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	40.18	212.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION

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CA SUBSCRIBER PRICE                                    -5.46      -5.46

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    40.18     212.49

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -5.46      -5.46

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DICTIONARY FILE UPDATES:  27 DEC 2007  HIGHEST RN 959655-61-9

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predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
=>

=>

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.90     213.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -5.46

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provided by InfoChem.

STRUCTURE FILE UPDATES:   27 DEC 2007  HIGHEST RN 959655-61-9
DICTIONARY FILE UPDATES:  27 DEC 2007  HIGHEST RN 959655-61-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.
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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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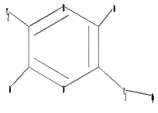

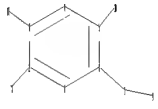

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7 9 10 11 13
ring nodes :
1 2 3 4 5 6
chain bonds :
2-11 3-13 5-10 6-7 7-9
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
2-11 3-13 5-10 6-7 7-9
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:O,S,N

G2:C,O,S

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:Atom 10:CLASS 11:CLASS 13:CLASS

Generic attributes :
9:
Saturation : Unsaturated

L5 STRUCTURE UPLOADED

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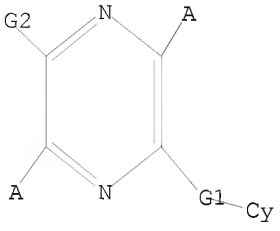
L5 STR



G1 O,S,N

G2 C,O,S

Structure attributes must be viewed using STN Express query preparation.

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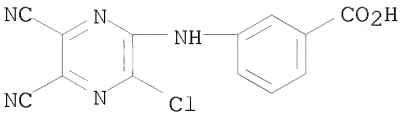
57.1% PROCESSED 2000 ITERATIONS 6 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 66550 TO 73650
PROJECTED ANSWERS: 16 TO 404

L6 6 SEA SSS SAM L5

=> d 1-6

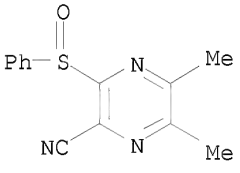
L6 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 139964-69-5 REGISTRY
ED Entered STN: 27 Mar 1992
CN Benzoic acid, 3-[(3-chloro-5,6-dicyanopyrazinyl)amino]- (9CI) (CA INDEX NAME)
MF C13 H6 Cl N5 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

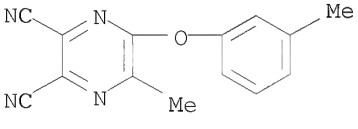
L6 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 128142-29-0 REGISTRY
ED Entered STN: 13 Jul 1990
CN Pyrazinecarbonitrile, 5,6-dimethyl-3-(phenylsulfinyl)- (9CI) (CA INDEX NAME)
MF C13 H11 N3 O S
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 72545-94-9 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2,3-Pyrazinedicarbonitrile, 5-methyl-6-(3-methylphenoxy)- (CA INDEX NAME)
MF C14 H10 N4 O
LC STN Files: CA, CAPLUS

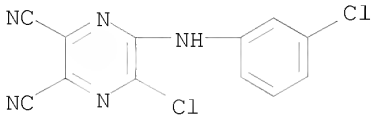


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 72545-78-9 REGISTRY

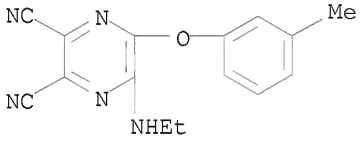
ED Entered STN: 16 Nov 1984
CN 2,3-Pyrazinedicarbonitrile, 5-chloro-6-[(3-chlorophenyl)amino]- (CA INDEX NAME)
MF C12 H5 Cl2 N5
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

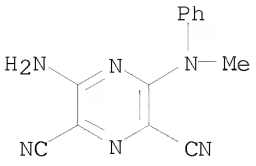
L6 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 72114-04-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2,3-Pyrazinedicarbonitrile, 5-(ethylamino)-6-(3-methylphenoxy)- (CA INDEX NAME)
MF C15 H13 N5 O
LC STN Files: BEILSTEIN*, CA, CAPLUS
    (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2007 ACS on STN
RN 39870-63-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2,6-Pyrazinedicarbonitrile, 3-amino-5-(methylphenylamino)- (CA INDEX NAME)
OTHER NAMES:
CN 2-Amino-3,5-dicyano-6-(N-methylanilino)pyrazine
MF C13 H10 N6
LC STN Files: BEILSTEIN*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL, USPATOLD
    (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>

=> s l1 sss full
FULL SEARCH INITIATED 07:58:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 25778 TO ITERATE

100.0% PROCESSED 25778 ITERATIONS 50 ANSWERS
SEARCH TIME: 00.00.01

L7 50 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	185.15	398.54

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.46

FILE 'CAPLUS' ENTERED AT 07:58:28 ON 28 DEC 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 28 Dec 2007 VOL 148 ISS 1
FILE LAST UPDATED: 27 Dec 2007 (20071227/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l7
L8 7 L7

```
=> d his

     (FILE 'HOME' ENTERED AT 07:16:44 ON 28 DEC 2007)

     FILE 'REGISTRY' ENTERED AT 07:17:02 ON 28 DEC 2007
L1             STRUCTURE UPLOADED
L2           2 S L1
L3          50 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 07:17:35 ON 28 DEC 2007
L4           7 S L3

     FILE 'REGISTRY' ENTERED AT 07:55:00 ON 28 DEC 2007

     FILE 'REGISTRY' ENTERED AT 07:55:56 ON 28 DEC 2007
L5             STRUCTURE UPLOADED
L6           6 S L5
L7          50 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 07:58:28 ON 28 DEC 2007
L8           7 S L7

=> s l8 not l4
L9           0 L8 NOT L4

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                0.47     399.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                   ENTRY    SESSION
CA SUBSCRIBER PRICE                                0.00      -5.46

STN INTERNATIONAL LOGOFF AT 07:59:07 ON 28 DEC 2007
```